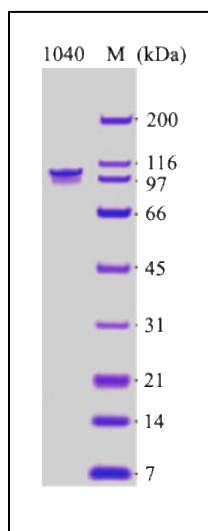


Recombinant Topo I (mt Y723F)

Catalog Number	Size
AG1040-10	10ug
AG1040-25	25ug
AG1040-B	Bulk

Description

The tyrosine mutated human Topoisomerase I (Y723F) was expressed in the baculovirus system and purified by an affinity column in combination of other chromatograph methods. The resulted protein is a monomeric polypeptide of 779 (14+765) amino acids with a 6His tag at the N-terminus. It migrates in SDS-PAGE with an apparent molecular mass of 100kDa.



MHHHHHHGRRASVEFGSDHLHNDSSQIEADFRNLNDSHKHKDKHKDREHRHK
EHHKEKDREKSKHSNSEHKDSEKKHKEKEKTKHKDGSSEKHKDKHKDRDK
EKRKEEKVRASGDAKIKKEKENGFSPPQIKDEPEDDGYFVPPKEDIKPL
KRPRDEDDADYKPKKIKTEDTKKEKKRKLEEEEDGKLKKPKNKDKDKKVP
EPDNKKKKPKKEEQKWKWEEERYPEGIKWKFLHKGPFVAPPYEPLPE
NVKFYYDGKVMKLSPKAEVATFFAKMLDHEYTTKEIFRKNFFKDWRKEM
TNEEKNIITNLSKCDFTQMSQYFKAQTEARKQMSKEEKLKIKEENEKLLK
EYGFCIMDNHKERIANFKIEPPGLFRGRGNHPKMGMLKRRIMPEDIINC
SKDAKVPSPPPGHKWKVEVRHDNKVTWLVSWTENIQGSIKYIMLNPSRIK
GEKDWQKYETARRLKKCVDKIRNQYREDWKSSEMQRVQRAVALYFIDKLA
LRAGNEKEEGETADTVGCCSLRVEHINLHPELDGQYEVVEFDLFGKDSIR
YYNKVPVEKRVFKNLQLFMENKQPEDDLFDRLNTGILNKHLDLMEGLTA
KVFRTYNASITLQQQLKELTAPDENIPAKILSYNRANRAVAILCNHQRAP
PKTFEKSMMNLQTKIDAKKEQLADARRDLKSAKADAKVMKDAKTKKVVES
KKKAVQRLEEQLMKLEVQATDREENKQIALGTSKLNFLDPRITVAWCKKW
GVPIEKIYNKTQREKFAWAIDMADEDYEF*

Accession Number

NM_003286

Molecular Mass

Approximately 100kDa.

Purity

≥90%, as determined by SDS-PAGE.

Biological Activity

The tyrosine 723 was identified as an active site for the DNA-binding of the DNA topoisomerase I. Mutation of tyrosine to phenylalanine (Y723F) preferentially binds to the supercoiled DNA rather than the relaxed DNA.

Formulation

20mM Tris-Cl (pH7.9), 20% glycerol 150mM NaCl , 1mM DTT and 3mM EDTA.

Storage

The protein sample can be stored under sterile conditions at 2-8°C for one month or at -20°C to -70°C for three months without detectable loss of activity. (**Avoid repeated freeze-thaw cycle**)

FOR RESEARCH USE ONLY!!!